Performance Data Sheet

AED4456YXA

General Information

Model	AED4456YXA	**Refrigerant**	R-134a
Test Condition	Tecumseh Europe	**Performance Test Voltage**	100V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-6.7	Watts (Capacity)	1150	976	800	623
	Watts (Power)	489	508	527	546
	Amps	7.73	7.89	8.04	8.20
-5	Watts (Capacity)	1240	1060	871	685
	Watts (Power)	499	522	546	569
	Amps	7.77	7.97	8.16	8.36
0	Watts (Capacity)	1540	1320	1110	890
	Watts (Power)	526	563	600	637
	Amps	7.89	8.22	8.54	8.87
5	Watts (Capacity)	1890	1630	1380	1130
	Watts (Power)	547	601	655	708
	Amps	7.99	8.47	8.95	9.43
7.2	Watts (Capacity)	2050	1780	1520	1250
	Watts (Power)	555	617	679	740
	Amps	8.02	8.58	9.14	9.70
10	Watts (Capacity)	2280	1990	1700	1410
	Watts (Power)	564	636	709	782
	Amps	8.06	8.73	9.39	10.1
15	Watts (Capacity)	2720	2390	2050	1720
	Watts (Power)	575	669	764	858
	Amps	8.11	8.99	9.87	10.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.189372E+03	4.159662E+02	6.909077E+00	
C2	8.389992E+01	-4.337564E+00	-6.475550E-02	
C3	-2.164612E+01	3.610643E+00	3.307496E-02	

C4	1.224755E+00	-2.589480E-01	-2.092359E-03	
C5	-6.550255E-01	3.047295E-01	2.867137E-03	
C6	-3.997960E-04	2.157739E-03	-1.419380E-05	
C7	0.000000E+00	0.000000E+00	0.000000E+00	
C8	-8.403156E-03	5.161385E-03	5.486390E-05	
C9	5.960000E-11	2.500000E-06	-2.030000E-08	
C10	2.670000E-06	-1.390000E-05	1.120000E-07	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AED4456YXA

General Information

Model	AED4456YXA	**Refrigerant**	R-134a
Test Condition	Tecumseh Europe	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-6.7	Watts (Capacity)	1370	1160	949	740
	Watts (Power)	584	607	630	652
	Amps	7.66	7.81	7.97	8.13
-5	Watts (Capacity)	1470	1250	1030	812
	Watts (Power)	599	627	655	682
	Amps	7.75	7.94	8.13	8.33
0	Watts (Capacity)	1820	1560	1310	1050
	Watts (Power)	639	684	730	775
	Amps	7.99	8.32	8.65	8.98
5	Watts (Capacity)	2220	1920	1630	1330
	Watts (Power)	674	741	807	873
	Amps	8.22	8.72	9.22	9.72
7.2	Watts (Capacity)	2410	2100	1780	1470
	Watts (Power)	688	765	842	918
	Amps	8.32	8.90	9.48	10.1
10	Watts (Capacity)	2670	2330	1990	1650
	Watts (Power)	704	795	886	977
	Amps	8.44	9.14	9.84	10.5
15	Watts (Capacity)	3190	2790	2400	2010
	Watts (Power)	729	848	967	1090
	Amps	8.65	9.57	10.5	11.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.585808E+03	5.055015E+02	6.994589E+00	
C2	9.727074E+01	-4.019349E+00	-4.336026E-02	
C3	-2.556667E+01	4.396715E+00	3.356248E-02	

C4	1.383329E+00	-3.181901E-01	-2.195018E-03	
C5	-7.559329E-01	3.848425E-01	3.035363E-03	
C6	-4.777930E-04	2.603579E-03	-1.455600E-05	
C7	0.000000E+00	0.000000E+00	0.000000E+00	
C8	-9.407946E-03	7.174429E-03	6.408340E-05	
C9	-2.700000E-10	2.870000E-06	-1.810000E-08	
C10	3.190000E-06	-1.680000E-05	1.150000E-07	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature